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PHOTOGRAPHIC INTERPRETATION REPORT

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

COMMUNICATIONS FACILITIES, SOVIET FAR EAST PVO SYSTEM

DEPLOYED COMM/ELEC/RADAR FACILITIES
USSR

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COMMUNICATIONS FACILITIES, SOVIET FAR EAST PVO SYSTEM

1. The eight communications facilities listed below were identified from high-resolution KEYHOLE photography through June 1969. Seven of the facilities probably serve a Soviet Far East PVO (air defense of the homeland)

This system consists of two communications networks. One network has reported terminals at Petropavlovsk, Provideniya, and Khabarovsk; the other has reported terminals at Petropavlovsk, Blagoveshchensk, and Vladivostok (Figure 1). The Petropavlovsk terminal area reportedly serves as the control point for both networks.

2. Three of the facilities described in this report probably serve the Petropavlovsk terminal area--two contain short- and intermediate-range antennas, and one contains a direction-finding (DF) FIX 24 antenna. Two facilities containing long range high- and very high-frequency (HF and VHF) communications antennas probably serve the northernmost terminal area at Provideniya. Two facilities containing only short- and intermediate-range antennas probably serve the terminal area at Khabarovsk. The eighth facility contains an HF/DF THICK EIGHT antenna, located in an area just outside of the Blagoveshchensk terminal area, and has not been designated as probable PVO-associated. No PVO-associated facilities were identified in the Vladivostok terminal area. Antenna orientations for those areas with long-range communications appear in Figure 2.

Petropavlovsk FIX 24 Facility
53-07-00N 158-53-10E, BE None

Petropavlovsk HF Communications Facility
53-06-00N 158-52-50E, BE None

Petropavlovsk HF Communications Facility NE
53-07-00N 158-56-20E, BE None

Provideniya Radio Communications Station 2
64-23-56N 173-11-30W,

Provideniya Radio Station 3
64-22-30N 173-13-00W,

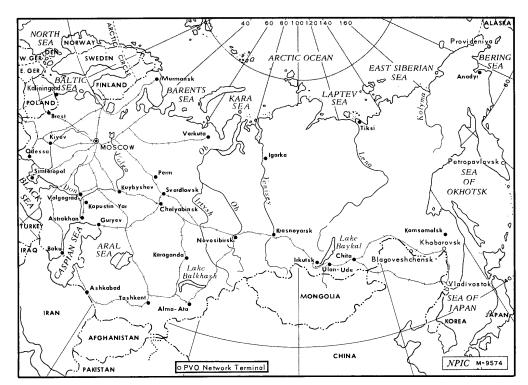


FIGURE 1. LOCATION MAP

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	godatnoye HF Communications -10N 134-25-30E, BE None	
	godatnoye HF Communications -OON 135-23-25E, BE None	
	k THICK EIGHT Facility 25-30E, BE None	
	t identifies and describes signated production maps, annotated production maps.	3
PETROPAVLOVSK TERMI	NAL AREA	
east of Petropavlov side of the Petropa: The support area contained Figure 3) is a circular array constitution building in the center of the side of	ists of 24 guyed, vertical-mast	adjacent to the northwest adquarters Radar Facility a DF FIX 24 antenna and a The FIX 24 antenna (inset, The dipole elements that are each is mast-mounted atop a control
a T-shaped operation semicircle on the no provide HF coverage width of a horizonte dipoles will be orie	support area (Figure 4), adjace is building. Seven horizontal cortheast side of the operations of the Kamchatka Peninsula (Figure 4) aldipole is wide, an open source ented to within ± (3) degrees of intains 21 support buildings and	dipole antennas arranged in a building are oriented to gure 2). Although the beam ce indicates that horizontal f their correspondents.
TALL KING facility. facility and contain The other is 1.0 nm antenna and two FORM	munications facilities are associated one communications facility is not two horizontal dipole antennal south of the FIX 24 facility ark REST antennas. The two HF com AD headquarters facility with shations.	s 2.1 nm east of the FIX 24 as and two FORK REST antennas. nd contains one Vee (quadrant) mmunications facilities pro-
PROVIDENTYA TERMINAL	L AREA	
Provideniya area. 1 located 1.0 nm south transmitting antenna control building, an oriented toward Mosc	le PVO-associated communications The Provideniya Radio Communicat n of the city and contains two c as, two FORK REST antennas, seve nd four support buildings. One cow, one single rhombic is orier and one double rhombic antenna a 2).	tions Station 2 (Figure 5) is double and two single rhombic en unidentified masts, one double rhombic antenna is nted toward Khabarovsk, and
city, and contains antennas, and two unbuildings. Two sing one single rhombic imined correspondents	a Radio Station 3 (Figure 6) is seven receiving rhombic antennas midentified masts, two control kgle rhombic antennas are orientefrom Yuzhno-Sakhalinsk, and two s (Figure 2). The Provideniya Age two radio stations.	s, three horizontal dipole ouildings and 24 support ed to receive from Khabarovsk single rhombics from undeter

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KHABAROVSK TERMINAL AREA

9. Two probable PVO-associated HF communications facilities are located in the Khabarovsk area. The facilities are located near the Khabarovsk/Blagodatnoye Airfield | and the Blagodatnoye TALL KING AW Radar Facility | one facility (Figure 7) is 13.0 nm east of the city, and 1.2 nm north of the airfield and radar facility, and contains six horizontal dipole antennas, three probable FORK REST antenna masts, one control building, and two support buildings. The other communications facility (Figure 8) is 10.0 nm east of Khabarovsk, and 1.5 nm west of the airfield and radar facility, and contains three horizontal dipole antennas, three probable FORK REST antenna masts, one control building, and three small support buildings. Both facilities appear to handle local communications, since the horizontal dipoles are short-range antennas.

BLAGOVESCHENSK TERMINAL AREA

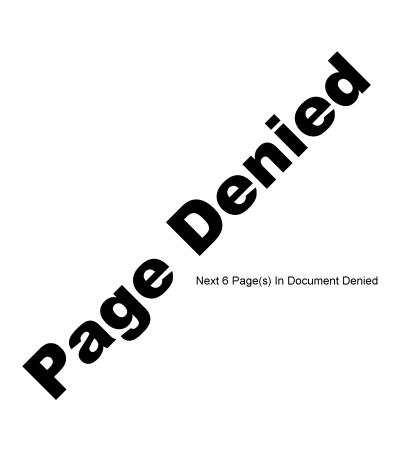
10. No PVO-associated communications facilities could be identified. However, an HF/DF THICK EIGHT facility is located 7.0 nm northwest of the city and 3.0 nm south of Blagoveshchensk Airfield Northwest

VLADIVOSTOK TERMINAL AREA

11. No PVO-associated communications facilities could be identified. However, two VHF communications facilities are associated with the Uglovoye NW Airfield AW Radar Facility One facility is

east of the airfield facility and contains nine FORK REST antennas, four probable FORK REST antennas, one control building, and two small support buildings. The second facility is 2.0 nm north of the airfield facility and contains nine FORK REST antennas, one control building, and two support buildings.

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MAPS OR CHARTS	ı
ACIC. US Air Target Charts, series 200, scale 1:200,000	
DOCUMENT	
1. USSR. Committee of Standards, Measurements and Instruments, The USSR Council of Ministers, GOST 8025-56, Transmitting Shortwave Band Symmetrical Antennas, Moscow, 1956 (UNCLASSIFIED)	
RELATED DOCUMENT	
GOST 6497-53, Receiving Shortwave Band Symmetrical Antennas, Moscow, 1965 (UNCLASSIFIED)	
REQUIREMENT	
NPIC 250693	
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